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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT  
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L1 0 S (PLASMA FABP) AND REVIEW?  
L2 14 S (PLASMA FABP)  
L3 5 DUPLICATE REMOVE L2 (9 DUPLICATES REMOVED)  
L4 0 S L3 AND LIVER?  
L5 9494 S (FATTY ACID BINDING PROTEIN)  
L6 1324 S L5 AND PLASMA?  
L7 397 S L6 AND LIVER?  
L8 21 S L7 AND REVIEW?  
L9 20 DUPLICATE REMOVE L8 (1 DUPLICATE REMOVED)

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L10 14 S (PLASMA FABP)  
L11 5 DUPLICATE REMOVE L10 (9 DUPLICATES REMOVED)  
L12 351 S (LIVER FABP)  
L13 23 S L12 AND PLASMA?  
L14 10 DUPLICATE REMOVE L13 (13 DUPLICATES REMOVED)

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 (1995)-

Notes: "Available on ADONIS, v. 20, no. 1 (1994)-v. 37, no. 6 (2002)  
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ISSN: 0168-8278

Subjects: Liver -- Periodicals.

Description: v. : ill. ; 27 cm.

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 URL: <http://www.sciencedirect.com/science/journal/01688278>  
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           Vol. 38, No. 1 - Vol. 39, No. 6 (Jan 2003 - Dec 2003)  
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                   Vol. 24 Suppl. No. 1-2 (1996)

Vol. 25 No. 1 Suppl. (Aug 1996 - Aug 1996)  
Vol. 26 Suppl. No. 1-2 (1997)  
Vol. 28 Suppl. 1 (1998)  
Vol. 30 No. 1 Suppl. (1999)  
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AN 1991:226433 CAPLUS

DN 114:226433

ED Entered STN: 15 Jun 1991

TI Intracellular sterol distribution in transfected mouse L-cell fibroblasts expressing rat liver fatty acid-binding protein

AU Jefferson, John R.; Slotte, J. Peter; Nemecz, Gyorgy; Pastuszyn, Andrzej; Scallen, Terence J.; Schroeder, Friedhelm

CS Med. Cent., Univ. Cincinnati, Cincinnati, OH, 45267-0004, USA

SO Journal of Biological Chemistry (1991), 266(9), 5486-96

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

CC 13-2 (Mammalian Biochemistry)

AB The potential role of liver fatty acid-binding protein (L-FABP) in modulating cellular sterol distribution was examined in mouse L-cell fibroblasts transfected with cDNA encoding L-FABP. L-cells were chosen because they contain only a small amount of endogenous FABP which does not bind [3H]cholesterol, does not enhance intermembrane sterol transfer, and whose content is unaltered by the expression of L-FABP. Transfected L-cells expressed 0.34% of cytosolic protein as L-FABP. Transfection alone with low expression of L-FABP (0.008% of cytosolic protein) had no effect on any of the parameters tested. Three aspects of cellular sterol transfer were examined. First, cellular sterol uptake, monitored by [3H]cholesterol and the fluorescent sterol,  $\Delta$ -5-,7,9(11),22-ergostatetraen-3 $\beta$ -ol, was increased 21.5% in L-cells expressing L-FABP. This increase was not accounted for by increased sterol esterification in the cells expressing L-FABP. Inhibition of both cholesterol transfer and esterification with 3-(decyldimethylsilyl)-N-[2-(4-methylphenyl)-1-phenylethyl]propanamide from Sandoz abolished the L-FABP-related enhancement of both [3H]cholesterol uptake and esterification. Second, **plasma** membrane transbilayer distribution of sterol, determined by fluorescence methods indicated that the majority of sterol was in the inner leaflet of the **plasma** membrane. In transfected cells expressing L-FABP, twice as much sterol (28%) was present in the exofacial leaflet of the **plasma** membrane as compared to that of control cells (15%). Third, expression of L-FABP enhanced sterol transfer from the **plasma** membrane to microsomes in intact cells. Treatment of [3H]cholesterol or [3H]oleate-loaded cells with sphingomyelinase resulted in increased formation of radiolabeled cholesterol ester, consistent with enhanced microsomal esterification of **plasma** membrane-derived cholesterol. Concomitantly, **plasma** membrane [3H]cholesterol became less accessible to oxidation by cholesterol oxidase. Sphingomyelinase-stimulated cholesterol esterification was 21% greater in transfected cells. Concomitantly, accessibility of **plasma** membrane [3H]cholesterol to cholesterol oxidase was decreased 18% in cells expressing L-FABP. These differences are consistent with the ability of L-FABP to influence sterol transport and **plasma** membrane transbilayer sterol distribution in intact cells.

ST sterol fatty acid binding protein; membrane cholesterol **liver FABP** protein

IT Sphingomyelins

RL: BIOL (Biological study)

(of cell membrane, L-FABP effect on, sterol content in relation to)

IT Cell membrane

Endoplasmic reticulum

(sterols in, L-FABP modulation of)

IT Proteins, specific or class

RL: BIOL (Biological study)

(L-FABP (liver fatty acid-binding protein), sterol distribution in cells regulation by)



IT Biological transport  
(absorption, of sterols, L-FABP expression effect on)

IT Cytoplasm  
(cytosol, L-FABP protein in, intracellular sterol distribution  
regulation by)

IT Steroids, biological studies  
RL: BIOL (Biological study)  
(hydroxy, intracellular distribution of, L-FABP protein regulation of)

IT 9027-63-8  
RL: BIOL (Biological study)  
(L-FABP stimulation of, intracellular sterol distribution in relation  
to)

IT 57-88-5D, Cholesterol, esters  
RL: FORM (Formation, nonpreparative)  
(formation of, from free cholesterol, L-FABP protein regulation of)

IT 516-85-8, Dehydroergosterol  
RL: BIOL (Biological study)  
(intracellular distribution of, L-FABP protein modulation of)

IT 57-88-5, Cholesterol, biological studies  
RL: BIOL (Biological study)  
(intracellular distribution of, L-FABP protein regulation of)

AN 2003:81756 BIOSIS

DN PREV200300081756

TI **Plasma** concentration of intestinal- and liver-  
**FABP** in neonates suffering from necrotizing enterocolitis and in  
healthy preterm neonates.

AU Guthmann, Florian [Reprint Author]; Boerchers, Torsten; Wolfrum,  
Christian; Wustrack, Thomas; Bartholomaeus, Sabine; Spener, Friedrich

CS Department of Neonatology, Charite Campus Mitte, D-10098, Berlin, Germany  
florian.guthmann@charite.de

SO Molecular and Cellular Biochemistry, (October 2002) Vol. 239, No. 1-2, pp.  
227-234. print.

ISSN: 0300-8177 (ISSN print).

DT Article

LA English

ED Entered STN: 6 Feb 2003

Last Updated on STN: 6 Feb 2003

AB Both early diagnostic and prognostic assessment of the acute abdomen in  
preterm infants are hampered by the lack of a sensitive and specific  
parameter for intestinal injury. In this prospective clinical study we  
wanted to estimate the value of intestinal (I-) and liver (L-) fatty acid  
binding protein (FABP) in diagnosing necrotizing enterocolitis (NEC).  
Using highly sensitive and specific sandwich ELISAs which employ  
recombinant human I- and L-FABP as standard proteins (limit of detection  
0.1 ng/ml **plasma**), the L-FABP concentration (median 7.6 ng/ml)  
was determined to be about 3 fold that of I-FABP (median 2.52 ng/ml) in  
**plasma** of healthy preterm infants. I- and L-FABP concentrations  
significantly increased with birth weight (1.6 and 5.0 ng/ml per kg,  
respectively). At onset of symptoms, I-FABP concentration was  
significantly higher in infants who later developed severe NEC compared to  
healthy infants and those, whose illness remained confined to stage I or  
II. L-FABP was significantly elevated compared to the control group at  
onset of symptoms regardless of the further course of NEC. In conclusion,  
I-FABP appears to be a specific parameter for early detection of  
intestinal injury leading to severe NEC stage III. L-FABP, however, is a  
promising sensitive marker even for stage I of NEC.

CC Pathology - Diagnostic 12504

Digestive system - Physiology and biochemistry 14004

Digestive system - Pathology 14006

Blood - Blood and lymph studies 15002

Blood - Blood cell studies 15004

Pediatrics 25000

Medical and clinical microbiology - Bacteriology 36002

IT Major Concepts

Gastroenterology (Human Medicine, Medical Sciences); Infection;

Pediatrics (Human Medicine, Medical Sciences)

IT Parts, Structures, & Systems of Organisms

intestine: digestive system; **plasma**: blood and lymphatics

IT Diseases

necrotizing enterocolitis: bacterial disease, digestive system disease,  
diagnosis

Enterocolitis, Necrotizing (MeSH)

IT Chemicals & Biochemicals

intestinal-fatty acid binding protein

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

human (common): newborn, premature

Taxa Notes

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Organism Name

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Animals, Chordates, Humans, Mammals, Primates, Vertebrates

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